

0590
0320#7
#6OIEP
ENTERED

RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/09/931,007A

TIME: 15:35:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\03182002\I931007A.raw

3 <110> APPLICANT: Aventis Pharma S.A.
 5 <120> TITLE OF INVENTION: SYSTEM FOR REGULATING IN VIVO THE EXPRESSION OF A TRANSGENE
 BY
 6 CONDITIONAL INHIBITION
 8 <130> FILE REFERENCE: 03806.0512
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/931,007A
 C--> 10 <141> CURRENT FILING DATE: 2001-08-17
 10 <150> PRIOR APPLICATION NUMBER: FR 00/10730
 11 <151> PRIOR FILING DATE: 2000-08-18
 13 <150> PRIOR APPLICATION NUMBER: US 60/239,246
 14 <151> PRIOR FILING DATE: 2000-10-11
 16 <160> NUMBER OF SEQ ID NOS: 11
 18 <170> SOFTWARE: PatentIn version 3.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 688
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <220> FEATURE:
 W--> 26 <221> NAME/KEY: misc
 27 <222> LOCATION: (1)..(688)
 28 <223> OTHER INFORMATION: Sequence for PPAR-gamma-2-gamma-2, a modified human PPAR-
 gamma (P
 29 erxisome Proliferator Activated Receptor-gamma)
 32 <400> SEQUENCE: 1
 34 Met Gly Glu Thr Leu Gly Asp Ser Pro Ile Asp Pro Glu Ser Asp Ser
 35 1 5 10 15
 37 Phe Thr Asp Thr Leu Ser Ala Asn Ile Ser Gln Glu Met Thr Met Val
 38 20 25 30
 40 Asp Thr Glu Met Pro Phe Trp Pro Thr Asn Phe Gly Ile Ser Ser Val
 41 35 40 45
 43 Asp Leu Ser Val Met Glu Asp His Ser His Ser Phe Asp Ile Lys Pro
 44 50 55 60
 46 Phe Thr Thr Val Asp Phe Ser Ser Ile Ser Thr Pro His Tyr Glu Asp
 47 65 70 75 80
 49 Ile Pro Phe Thr Arg Thr Asp Pro Val Val Ala Asp Tyr Lys Tyr Asp
 50 85 90 95
 52 Leu Lys Leu Gln Glu Tyr Gln Ser Ala Ile Lys Val Glu Pro Ala Ser
 53 100 105 110
 55 Pro Pro Tyr Tyr Ser Glu Lys Thr Gln Leu Tyr Asn Arg Asn Lys Cys
 56 115 120 125
 58 Gln Tyr Cys Arg Phe Gln Lys Cys Leu Ala Val Gly Met Ser His Asn
 59 130 135 140
 61 Ala Ile Arg Phe Gly Arg Met Pro Gln Ala Glu Lys Glu Lys Leu Leu
 62 145 150 155 160

64 Ala Glu Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser Ala Asp

RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/09/931,007A

TIME: 15:35:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\03182002\I931007A.raw

```

65          165          170          175
67 Leu Arg Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys Ser Phe
68          180          185          190
70 Pro Leu Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys Thr Thr
71          195          200          205
73 Asp Lys Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met Met Gly
74          210          215          220
76 Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu Gln Ser
77 225          230          235          240
79 Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg Ser Val
80          245          250          255
82 Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe
83          260          265          270
85 Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val
86          275          280          285
88 His Glu Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn Lys Asp Gly
89          290          295          300
91 Val Leu Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe Leu Lys
92 305          310          315          320
94 Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe Glu Phe
95          325          330          335
97 Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Ile
98          340          345          350
100 Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu Leu Asn
101          355          360          365
103 Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu
104          370          375          380
106 Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys
107 385          390          395          400
109 Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val
110          405          410          415
112 Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His
113          420          425          430
115 Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr Ala Trp Ala Ile Leu
116          435          440          445
118 Thr Gly Lys Thr Thr Asp Lys Ser Pro Phe Val Ile Tyr Asp Met Asn
119          450          455          460
121 Ser Leu Met Met Gly Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro
122 465          470          475          480
124 Leu Gln Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys
125          485          490          495
127 Gln Phe Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys
128          500          505          510
130 Ser Ile Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu
131          515          520          525
133 Leu Lys Tyr Gly Val His Glu Ile Ile Tyr Thr Met Leu Ala Ser Leu
134          530          535          540
136 Met Asn Lys Asp Gly Val Leu Ile Ser Glu Gly Gln Gly Phe Met Thr
137 545          550          555          560

```

RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/09/931,007A

TIME: 15:35:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\03182002\I931007A.raw

```

139 Arg Glu Phe Leu Lys Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu
140          565          570          575
142 Pro Lys Phe Glu Phe Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp
143          580          585          590
145 Ser Asp Leu Ala Ile Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg
146          595          600          605
148 Pro Gly Leu Leu Asn Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu
149          610          615          620
151 Leu Gln Ala Leu Glu Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser
152 625          630          635          640
154 Gln Leu Phe Ala Lys Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile
155          645          650          655
157 Val Thr Glu His Val Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr
158          660          665          670
160 Asp Met Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
161          675          680          685
163 <210> SEQ ID NO: 2
164 <211> LENGTH: 19
165 <212> TYPE: DNA
C--> 166 <213> ORGANISM: Artificial
168 <220> FEATURE:
169 <223> OTHER INFORMATION: PPAR binding site
171 <400> SEQUENCE: 2
172 tcaaccttta ccctggtag                                     19
175 <210> SEQ ID NO: 3
176 <211> LENGTH: 13
177 <212> TYPE: DNA
C--> 178 <213> ORGANISM: Artificial
180 <220> FEATURE:
181 <223> OTHER INFORMATION: PPAR binding site
183 <400> SEQUENCE: 3
184 aggtcaaagg tca                                           13
187 <210> SEQ ID NO: 4
188 <211> LENGTH: 30
189 <212> TYPE: DNA
C--> 190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <223> OTHER INFORMATION: primer
195 <400> SEQUENCE: 4
196 atgcatcgat ggccgcttcg agcagacatg                         30
199 <210> SEQ ID NO: 5
200 <211> LENGTH: 39
201 <212> TYPE: DNA
C--> 202 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: primer
207 <400> SEQUENCE: 5
208 atgcgtcgac tctagccgat tttaccacat ttgtagagg             39
211 <210> SEQ ID NO: 6

```

RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/09/931,007A

TIME: 15:35:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\03182002\I931007A.raw

```

212 <211> LENGTH: 33
213 <212> TYPE: DNA
C--> 214 <213> ORGANISM: Artificial
216 <220> FEATURE:
217 <223> OTHER INFORMATION: primer
219 <400> SEQUENCE: 6
220 cgagcatgct gctgctgctg ctgctgctgg gcc 33
223 <210> SEQ ID NO: 7
224 <211> LENGTH: 33
225 <212> TYPE: DNA
C--> 226 <213> ORGANISM: Artificial
228 <220> FEATURE:
229 <223> OTHER INFORMATION: primer
231 <400> SEQUENCE: 7
232 gggctctagat taacccgggt gcgcggcgctc ggt 33
235 <210> SEQ ID NO: 8
236 <211> LENGTH: 20
237 <212> TYPE: DNA
C--> 238 <213> ORGANISM: Artificial
240 <220> FEATURE:
241 <223> OTHER INFORMATION: primer
243 <400> SEQUENCE: 8
244 cgatcatgtt cgacgacgcc 20
247 <210> SEQ ID NO: 9
248 <211> LENGTH: 20
249 <212> TYPE: DNA
C--> 250 <213> ORGANISM: Artificial
252 <220> FEATURE:
253 <223> OTHER INFORMATION: primer
255 <400> SEQUENCE: 9
256 ccaggtcgca ggcgggtgtag 20
259 <210> SEQ ID NO: 10
260 <211> LENGTH: 23
261 <212> TYPE: RNA
C--> 262 <213> ORGANISM: Artificial
264 <220> FEATURE:
265 <223> OTHER INFORMATION: aptamer
267 <400> SEQUENCE: 10
268 ggccugggcg agaaguuuag gcc 23
271 <210> SEQ ID NO: 11
272 <211> LENGTH: 72
273 <212> TYPE: RNA
C--> 274 <213> ORGANISM: Artificial
276 <220> FEATURE:
277 <223> OTHER INFORMATION: aptamer
279 <400> SEQUENCE: 11
280 ggugaucaga uucugaucca auguuaugcu ucucugccug ggaacagcug ccugaagcuu 60
282 uggauccguc gc 72

```

VERIFICATION SUMMARY

DATE: 03/18/2002

PATENT APPLICATION: US/09/931,007A

TIME: 15:35:23

Input Set : A:\EP.txt

Output Set: N:\CRF3\03182002\I931007A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:26 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:166 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:178 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:190 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:202 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:214 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:226 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:238 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:250 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:262 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:274 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11